



Physics 1 (Advanced Sciences)

By David Sang, Keith Gibbs, Robert Hutchings

Cambridge University Press, 2000. Softcover. Book Condition: New. Physics 1 has been developed specifically for the new specifications for AS level for teaching from September 2000. It is endorsed by OCR, and covers the first-year core material of Advanced Level physics. In conjunction with the other texts in the Cambridge Advanced Sciences series, it provides complete coverage of the OCR physics specification A. Self-assessment questions (with answers) and exam-style end-of-chapter exercises offer excellent opportunities for independent study. Chapter introductions and summaries provide the basis for structured revision. Full-colour illustration and student-friendly design make the science accessible to all. Physics 1 covers all of the first-year core material for Advanced Level physics. Contents Introduction FORCES AND MOTION 1 Kinematics - describing motion 2 Accelerated motion 3 Dynamics - explaining motion 4 Working with vectors 5 Forces, moments and pressure 6 Work, energy and power 7 Forces, vehicles and safety 8 Deforming solids ELECTRONS AND PHOTONS 9 Electric current 10 Resistance and resistivity 11 Voltage, energy and power 12 DC circuits 13 Practical circuits 14 Kirchhoff's laws 15 Electromagnetism 16 Quantum physics 17 Spectra WAVE PROPERTIES 18 Reflection and refraction 19 Waves 20 Superposition of waves Appendix Glossary Answers to self assessment...



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